

ENVIRONMENTAL PROTECTION AGENCY  
Office of Enforcement

REGION 5  
77 West Jackson Boulevard  
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO. 02AH59		PROJECT NAME Cheshire Monitoring Study				NO. OF CON- TAINERS	<div style="text-align: right;">Activity Code: <del>12345</del> 90101A</div> <div style="text-align: center; font-size: 2em;">AIR 0207012</div>									
SAMPLERS: (Print Name and Sign) Mike Murphy <i>Mike Murphy Mike Murphy</i>																
STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION											
D01	7/19	00:00	X		GHS	1	TAG NUMBERS 5-340262 1 to 1									
S01	7/19	00:00	X		GHS	1	5-340261 1 to 1									
<del>S02</del>	<del>7/19</del>	<del>00:00</del>	<del>X</del>		<del>RVHS</del>	<del>1</del>	<del>5-340263 1 to 1</del> m.j.m									
<del>S03</del>	<del>7/19</del>	<del>00:00</del>	<del>X</del>		<del>ADDAVILLE</del>	<del>1</del>	<del>5-340264 1 to 1</del> m.j.m									
							GHS # 3012, Pstg Avg = 16.4									
							GHS # 3013, Pstg Avg = 16.5									
							RVHS, Pstg Avg = NO FILTERS									
							Addaville, Pstg Avg = NO FILTERS									
Relinquished by: (Signature) <i>Mike Murphy</i>		Date / Time 7-19-02 2:55		Received by: (Signature) <i>William Lopez</i>			Ship To:									
Relinquished by: (Signature)		Date / Time		Received by: (Signature)												
Relinquished by: (Signature)		Date / Time		Received for Laboratory by: (Signature) <i>William Lopez</i>			Date / Time 7/25/02 16:20		ATTN:							
Airbill Number UPS# 401 199 01 4083 5261																
Chain of Custody Seal Numbers																

5-140065

Project No. 02AH59 Project Name AIR 0207012 CHESHIRE MONITORING STUDY  
ARRIVAL DATE: 7/25/2002 DUE DATE: 8/10/02 90101A

Sampler  
Mike Murphy

Cooler ID 02AH591 Page 5-140065

Sample Id:	Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
02AH59D01	D01	19/07/2002 00:00:00	<input type="radio"/> Grab <input checked="" type="radio"/> Com	GHS	1	5-340262 1 to 1

Bottle No. 1  
Parameter  
PM10

Sample Id:	Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
02AH59S01	S01	19/07/2002 00:00:00	<input type="radio"/> Grab <input checked="" type="radio"/> Com	GHS	1	5-340261 1 to 1

Bottle No. 1  
Parameter  
PM10

Sample Id:	Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
<del>02AH59S02</del>	<del>S02</del>	<del>19/07/2002 00:00:00</del>	<del><input type="radio"/> Grab <input checked="" type="radio"/> Com</del>	<del>RVHS</del>	<del>1</del>	<del>5-340263 1 to 1</del>

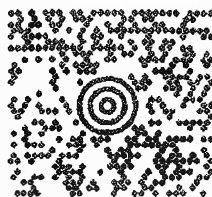
Bottle No. 1  
Parameter  
PM10

Sample Id:	Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
<del>02AH59S03</del>	<del>S03</del>	<del>19/07/2002 00:00:00</del>	<del><input type="radio"/> Grab <input checked="" type="radio"/> Com</del>	<del>ABDAVILLE</del>	<del>1</del>	<del>5-340264 1 to 1</del>

Bottle No. 1  
Parameter  
PM10

**FROM:**

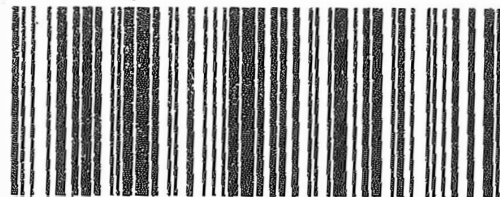
SOUTHEAST DISTRICT OFFICE  
(740) 385-8501  
OHIO EPA  
2195 E. FRONT STREET  
LOGAN OH 43138-8637

**1 LBS 1 OF 1****IL 606 9-08****SHIP TO:**

WILLIAM SARGENT JR.  
USEPA CENTRAL REGIONAL LABORATORY  
10 FLOOR  
536 SOUTH CLARK STREET  
**CHICAGO IL 60605**

**UPS NEXT DAY AIR**

TRACKING #: 1Z 401 199 01 4083 5261

**1**

U.S. FEDERAL BUREAU OF INVESTIGATION SERVICE

JUL 2 5 2002

Office \_\_\_\_\_  
536 S. Clark St.

BILLING: P/P

UOW 41.16 Kenica F 160A 04/2002

## Office of Enforcement

## CHAIN OF CUSTODY RECORD

**REGION 5**  
**77 West Jackson Boulevard**  
**Chicago, Illinois 60604**

PROJ. NO. 02AH27		PROJECT NAME Cheshire Monitoring study		NO. OF CON- TAINERS		<div>Activity Code: 12345</div> <div>Dataset # 20020034</div>											
SAMPLERS: (Print Name and Sign) Murphy Mike Murphy Mike Murphy																	
STA. NO.	DATE	TIME	COMP													GRAB	STATION LOCATION
DO1	1/8	00:00	X		GHS	1											5-340131 1 to 1
SO1	1/8	00:00	X		GHS	1											5-340130 1 to 1
SO2	1/8	00:00	X		RVHS	1											5-340132 1 to 1
SO3	1/8	00:00	X		ADDAVILLE	1											5-340133 1 to 1
																	GHS # 3012, Pstg Avg = 18.8 inches of H <sub>2</sub> O
																	GHS # 3013, Pstg Avg = 18.45 inches of H <sub>2</sub> O
																	RVHS # 3009, Pstg Avg = 18.5 inches of H <sub>2</sub> O
																	Addaville # 3011, Pstg Avg = 18.55 inches of H <sub>2</sub> O
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Ship To:											
Mike Murphy		1-11-02 15:42		Chin M. Yang													
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		ATTN:											
Relinquished by: (Signature)		Date / Time		Received for Laboratory by: (Signature)		Date / Time		Airbill Number									
				Chin M. Yang		1/15/02 15:00											
Chain of Custody Seal Numbers																	



Project No. 02AH27 Project Name CHESHIRE MONITORING STUDY 90101A  
Lab arrival: 1-15-02 Due date: 2-5-02

Sampler Murphy Dataset # 20020034

Cooler ID 1 Page 5-140032

Sample Id:	Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
02AH27DO1	DO1	08/01/2002 00:00:00	<input type="radio"/> Grab <input checked="" type="radio"/> Com	GHS	1	5-340131 1 to 1

Bottle No. 1

Parameter  
PM10

Sample Id:	Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
02AH27SO1	SO1	08/01/2002 00:00:00	<input type="radio"/> Grab <input checked="" type="radio"/> Com	GHS	1	5-340130 1 to 1

Bottle No. 1

Parameter  
PM10

Sample Id:	Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
02AH27SO2	SO2	08/01/2002 00:00:00	<input type="radio"/> Grab <input checked="" type="radio"/> Com	RVHS	1	5-340132 1 to 1

Bottle No. 1

Parameter  
PM10

Sample Id:	Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
02AH27SO3	SO3	08/01/2002 00:00:00	<input type="radio"/> Grab <input checked="" type="radio"/> Com	ADDAVILLE	1	5-340133 1 to 1

Bottle No. 1

Parameter  
PM10

**CENTRAL REGIONAL LABORATORY**  
**Data Checklist**

Data Set AIR 0207012 Cheshire Monitoring  
PM10

☒ Chain of Custody

☒ Reported in LIMS

☒ Transmittal Report w/signatures of the following:

- Analyst(s)
- Environmental Data Coordinator

Prepared by: Sylvia Griffin 10-23-02  
Environmental Data Coordinator

Revised 11-04-02

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: OCT 23 2002

Subject: Review of Region 5 Data for CHESHIRE MONITORING STUDY

From: Francis A. Awanya, Chemist *FAA*  
Region 5 Central Regional Laboratory

To:

Attached are the results for: CHESHIRE MONITORING STUDY

CRL data set number: 0207012

Samples analyzed for: **Suspended Particles**

Results are reported for sample designations: **2002AH59D01 and 2002AH59S01.**

OCT 23 2002

---

Data Management Coordinator and Date Received

Date Transmitted: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

Please have the U.S. EPA Project Manager/Officer complete the Customer Satisfaction Survey, attached, or call the CRL Sample Coordinator at 3-1226.

Please sign and date this form below and return it with any comments to:

Sylvia Griffin  
Data Management Coordinator  
Region 5 Central Regional Laboratory  
ML-10C

\_\_\_\_ / \_\_\_\_ / \_\_\_\_  
Received by and Date

Comments:

## CRL Data Review Qualification Codes

QUALIFIER	DESCRIPTION
<b>B</b>	This flag is used when the analyte is found in the associated <u>B</u> lank as well as the sample. It indicates possible blank contamination and warns the user to take appropriate action while assessing the data. See the case narrative for a discussion of common lab contaminants and/or the relative concentration of contamination in the samples and blanks for relevance.
<b>J</b>	This flag is used when the analyte is <u>estimated</u> due to quality control limit(s) being exceeded. This flag accompanies all GC/MS tentatively identified compounds (TICs). This flag also applies to a suspected, unidentified interference. This flag is placed on affected detected results as well as non-detected (i.e., "U" flagged) results. ( <u>J</u> is the flag used in the Superfund CLP SOW and Data Review Functional Guidelines and is used by CRL for consistency.)
<b>M</b>	This flag is used when the analyte is confirmed to be qualitatively present in the sample, extract or digestate, with a quantity at or above the CRL <u>M</u> ethod Detection Limit (MDL) but below the lowest concentration of the calibration curve. This flag indicates the quantitated value is <u>estimated</u> since it falls below the lowest calibration standard in the calibration curve.
<b>N</b>	This flag applies to GC/MS <u>T</u> entatively Identified Compounds (TICs) that have a mass spectral library match.
<b>Q</b>	This flag applies to analyte data that are severely estimated due to quality control and/or <u>Q</u> uantitation problems, but are confirmed to be qualitatively present in the sample. <u>No value is reported with this qualification flag.</u>
<b>R</b>	This flag applies to analyte data that are <u>R</u> ejected and unusable due to severe quality control, quantitation and/or qualitative identification problems. No other qualification flags are reported for this analyte. <u>No value is reported with this qualification flag.</u>
<b>U</b>	This flag is used when the analyte was analyzed for but <u>U</u> ndetected in the sample. The CRL RL for the analyte accompanies this flag. When the customer requests CRL to report below our RL down to our MDL, undetected analytes are reported with a "U" code and the MDL. As with sample results that are positive, the value is corrected for dry weight, dilution and/or sample weight or volume.

03/07/01





Environmental Protection Agency Region 5  
**Central Regional Laboratory**

536 South Clark Street, Chicago, IL 60605  
Phone:(312)353-8370 Fax:(312)886-2591

**WORK ORDER**

Printed: 8/12/02 8:58:02AM

**0207012**

**US EPA Region 5 Central Regional Laboratory**

**Client:** Air Division, US EPA Region 5  
**Project:** Gavin, Cheshire. Ohio

**Project Manager:** Marilyn Jupp  
**Project Number:** [none]

**Report To:**

Kathy Triantafillou  
Air Division, US EPA Region 5

77 West Jackson Boulevard  
Chicago, IL 60605

Phone: (312) 353-4775  
Fax: (312) 353-2001

**Date Due:** Aug-16-02 15:00 (21 day TAT)

**Received By:** William Sargent

**Date Received:** Jul-25-02 16:20

**Logged In By:** William Sargent

**Date Logged In:** Jul-25-02 16:52

Samples Received at:	°C	Starts 8-3-01
All containers intact:	No	Ends 8-3-02
Sample labels/COC agree:	No	
Samples Preserved Properly:	No	
Custody Seals Present:	No	

Analysis	Due	TAT	Expires	Comments
----------	-----	-----	---------	----------

**0207012-01 2002AH59D01-GHS#3012, PSTG AVG=16.4 [Air Filter] Sampled**  
**Jul-19-02 00:00 Central**

PM10	Aug-16-02 12:00	21	Aug-18-02 00:00
------	-----------------	----	-----------------

**0207012-02 2002AH59S01-GHS#3013, PSTG AVG=16.5 [Air Filter] Sampled**  
**Jul-19-02 00:00 Central**

PM10	Aug-16-02 12:00	21	Aug-18-02 00:00
------	-----------------	----	-----------------

Data Set Number:	<u>0207012</u>	Parameter:	<u>Suspended Particles</u>
Facility Name:	<u>CHESHIRE MONITORING STUDY</u>		
Study Name:	<u>CHESHIRE MONITORING STUDY</u>		
Date of Narrative:	<u>10/17/2002</u>	Analyst:	<u>FAA</u>
Prepared by:	<u>FAA</u>	Signature:	<u>FAA</u>

### ANALYSIS CASE NARRATIVE

Two (2) exposed filters were received for suspended particle analysis at the Central Regional Laboratory (CRL) on July 25, 2002. Those filters were fractions of clean filters, prepared at the CRL and sent to the field for exposure. Filter identification numbers and other pertinent information obtained from the individual filters and packaging envelopes are presented in the table below.

Filters ID	Samples ID	Tag Number
Q8609546	2002AH59D01	5-340262-1
Q8609545	2002AH59S01	5-340261-1

Filter equilibrations and final weighting of exposed filters were performed according to CRL.SOP AIG047. Analysis of exposed filters began on 08/14/2002 and was completed on 08/16/2002. All exposed filters were in good conditions.

### QUALITY CONTROL (QC):

Analysis results were evaluated using the QC requirements of CRL.SOP AIG047. All the required quality control criteria for the laboratory, method, and system performance audits were evaluated and determined to be within the limits.

### SAMPLE RESULTS:

All the sample results are acceptable for use.

### ELECTRONIC DATA:

No electronic data.

ENVIRONMENTAL PROTECTION AGENCY  
REGION V  
CENTRAL REGIONAL LABORATORY  
FINAL RESULT REPORT FOR THE TEAM: ANALYTICAL AND INORGANIC (A&I)

DIVISION/BRANCH: AIR DIVISION SAMPLING DATE: 07/13/2002 LAB ARRIVAL DATE: 07/25/2002 DUE DATE: 08/16/2002  
DU NUMBER: 90101A WORK ORDER NUMBER: 0207012 STUDY: CHESHIRE MONITORING STUDY PRIORITY: 1 LABORATORY: CRL

SAMPLE #	CRL LOG NUMBER	SAMPLE DESCRIPTION	SUSPENDED PARTICLE (g/filter)			
1	2002AH59D01	GUIDING HANDS SCHOOL	0.0481			
2	2002AH59S01	GUIDING HANDS SCHOOL	0.0501			
DATE OF ANALYSIS			08/14-16/2002			
ANALYST			<i>FWA</i>			

Reviewed by: *AT* Date: 02/21/2002

CRL SOP: HK015	Date: 07 January 2000	Revision No: 1
Data review for the Analytical and Inorganic Group		Page ___ of ___

### ATTACHMENT II

#### CRL Analytical and Inorganics Data Review Checklist

Batch Number: 0207012 Facility: GAVIN, CHESHIRE, OHIO  
 Parameter: SUSPENDED PARTICLES CRL.SOP: AIG047

Package Overview:	YES	NO
Raw Data Package Complete?	✓	
Results Reported Correctly?	✓	
Special Requests Done?	N/A	
Calculations Checked?	✓	
Calibration Not Exceeded?	N/A	
Manual Peak Integration performed? Circle one IC or GC and Check	N/A	
Field QC Checked?	N/A	
Quality Control:		
Holding Times Met?	✓	
Preservation Checked?	N/A	
Proper Digestion Verified?	N/A	
Initial Instrument Performance Checks Verified?	✓	
Calibration Verification Checked?	N/A	
Sample-Specific QC (Internal Standards or Analytical Spikes) Okay?	N/A	
Matrix QC Checked?	N/A	
Digestion Blanks Checked?	N/A	
Spiked Blank Checked?	N/A	
LCS (if applicable) Checked?	N/A	
QCS (if applicable) Checked?	N/A	
Final Check		
Technical Review Done?	✓	
Narrative Complete?	✓	

Analyst: FAN Peer Reviewer: AL  
 Date: 10/17/02 Date: 10/22/02

Comments Attached? (Y/N) N

<b>Data Set Number:</b>	<u>0207012</u>	<b>Parameter:</b>	<u>Suspended Particles</u>
<b>Facility Name:</b>	<u>CHESHIRE MONITORING STUDY</u>		
<b>Study Name:</b>	<u>CHESHIRE MONITORING STUDY</u>		
<b>Date of Narrative:</b>	<u>10/17/2002</u>	<b>Analyst:</b>	<u>FAA</u>
<b>Prepared by:</b>	<u>FAA</u>	<b>Signature:</b>	<u>FAA</u>

### ANALYSIS CASE NARRATIVE

Two (2) exposed filters were received for suspended particle analysis at the Central Regional Laboratory (CRL) on July 25, 2002. Those filters were fractions of clean filters, prepared at the CRL and sent to the field for exposure. Filter identification numbers and other pertinent information obtained from the individual filters and packaging envelopes are presented in the table below.

Filters ID	Samples ID	Tag Number
Q8609546	2002AH59D01	5-340262-1
Q8609545	2002AH59S01	5-340261-1

Filter equilibrations and final weighting of exposed filters were performed according to CRL.SOP AIG047. Analysis of exposed filters began on 08/14/2002 and was completed on 08/16/2002. All exposed filters were in good conditions.

### QUALITY CONTROL (QC):

Analysis results were evaluated using the QC requirements of CRL.SOP AIG047. All the required quality control criteria for the laboratory, method, and system performance audits were evaluated and determined to be within the limits.

### SAMPLE RESULTS:

All the sample results are acceptable for use.

### ELECTRONIC DATA:

No electronic data.



# PREPARATION BENCH SHEET

B2J1602

US EPA Region 5 Central Regional Laboratory

Printed: 10/16/02 4:26:04PM

Matrix: Air Filter

Prepared using: A&I - General Preparation

(No Surrogate)

Lab Number	Analysis	Prepared	Initial (g)	Final (g)	Spike ID	Source ID	ul Spike	ul Surrogate	Initials			Extraction Comments
0207011-01	PM10	Aug-14-02 16:11	1	1								
0207011-02	PM10	Aug-14-02 16:11	1	1								
0207011-03	PM10	Aug-14-02 16:11	1	1								
0207011-04	PM10	Aug-14-02 16:11	1	1								
0207012-01	PM10	Aug-14-02 16:11	1	1								
0207012-02	PM10	Aug-14-02 16:11	1	1								
0208003-01	PM10	Aug-14-02 16:11	1	1								
0208003-02	PM10	Aug-14-02 16:11	1	1								
0208003-03	PM10	Aug-14-02 16:11	1	1								
0208003-04	PM10	Aug-14-02 16:11	1	1								
0208004-01	PM10	Aug-14-02 16:11	1	1								
0208004-02	PM10	Aug-14-02 16:11	1	1								
0208004-03	PM10	Aug-14-02 16:11	1	1								
0208004-04	PM10	Aug-14-02 16:11	1	1								
B2J1602-DUP1	QC	Aug-14-02 16:11	1	1		0207012-01						
B2J1602-DUP2	QC	Aug-14-02 16:11	1	1		0208003-03						

Spiking Witnessed By

Date

Preparation Reviewed By

Date

Extracts Received By

Date

# CHESHIRE AIR MONITORING PROJECT

## PM10

Parameter: Suspended Particles

Work Ordert Numbers: 0207011, 0207012, 0208003, 0208004

Date of Analysis 8/16/2002

Analyst: FAA

### BALANCE VERIFICATION:

Standard Weights	Balanced weight	Differences
Actual (g)	Balanced (g)	(g)
Limit +/-0.0005 g		
<b>Work Ordert Numbers: 0207011, 0207012, 0208003, 0208004</b>		
1.0000	0.9998	0.0002
2.0000	2.0001	-0.0001
5.0000	5.0001	-0.0001

### QC-SUMMARY FOR EXPOSED FILTERS

Filter ID	CRL Sample	Sampling	ANALYST	Exposed
Number	I.D Number	Date		weight (g)
<b>Work Ordert Numbers: 0207011, 0207012, 0208003, 0208004</b>				
Q8609546	2002AH59D01	07/19/02	Analyst 1	4.4171
Q8609546	2002AH59D01	07/19/02	Analyst 2	4.4169
Differences (Limit +/- 5 mg).....				0.0002
Q6597470	2002AH60S02	07/25/02	Analyst 1	4.4664
Q6597470	2002AH60S02	07/25/02	Analyst 2	4.4664
Differences (Limit +/- 5 mg).....				0.0000

**CHESHIRE AIR MONITORING PROJECT  
PM10**

Filter ID	CRL Sample	Sampling	Station	Sampler	Pstg	P1/Pa	Total	Pre Weight	Exposed	Weight	PM10
Number	I.D Number	Date	Location	SN	Avg		Volume (M^3)	of filters (g)	weight (g)	Gain	(UG/M^3)
<b>Work Order Number 0207011</b>											
Q8609542	2002AH58D01	07/13/02	Guiding Hands School	3013	16.00		0.00	4.3772	4.4053	0.0281	ERR
Q8609550	2002AH58S01	07/13/02	Guiding Hands School	3012	16.05		0.00	4.3860	4.4149	0.0289	ERR
G8609543	2002AH58S02	07/13/02	RVHS	-	16.40		0.00	4.3893	4.4172	0.0279	ERR
Q8609544	2002AH58S03	07/13/02	Addaville	-	15.85		0.00	4.3942	4.4215	0.0273	ERR
<b>Work Order Number 0207012</b>											
Q8609546	2002AH59D01	07/19/02	Guiding Hands School	3013	16.50		0.00	4.3690	4.4171	0.0481	ERR
Q8609545	2002AH59S01	07/19/02	Guiding Hands School	3012	16.40		0.00	4.3801	4.4302	0.0501	ERR
<b>Work Order Number 0208003</b>											
Q6597473	2002AH60D01	07/25/02	Guiding Hands School	3012	21.50		0.00	4.4380	4.4731	0.0351	ERR
Q6597472	2002AH60S01	07/25/02	Guiding Hands School	3013	21.30		0.00	4.4558	4.5082	0.0524	ERR
Q6597470	2002AH60S02	07/25/02	RVHS	-	21.80		0.00	4.4143	4.4664	0.0521	ERR
Q6597469	2002AH60S03	07/25/02	Addaville	-	21.20		0.00	4.4357	4.4869	0.0512	ERR
<b>Work Order Number 0208004</b>											
Q6597474	2002AH61D01	07/31/02	Guiding Hands School	3012	21.00		0.00	4.4511	4.4803	0.0292	ERR
Q6597477	2002AH61S01	07/31/02	Guiding Hands School	3013	21.20		0.00	4.4380	4.4822	0.0442	ERR
Q6597476	2002AH61S02	07/31/02	RVHS	-	21.75		0.00	4.4355	4.4760	0.0405	ERR
Q6597478	2002AH61S03	07/31/02	Addaville	-	20.95		0.00	4.4059	4.4435	0.0376	ERR



FILTER I.O.	TAKE wt (g)	DUP wt (g)	EXPOSED wt (g)	EXPOSED wt (g)	EXPOSED wt (g)	Comments
Q8609531	4.3346		4.3745			Tear-But all pieces present
Q8609532	4.3574		4.3996			
Q8609533	4.3820		4.4179			
Q8609534	4.3544		4.4460			
Q8609535	4.3563		4.4383			
Q8609536	4.3340		4.4154			
Q8609537	4.3840		4.4367			
Q8609538	4.3530		4.4383			
Q8609539	4.3775		4.4191			
Q8609540	4.3896	4.3893	4.4373			
Q8609541	4.3922		4.4431		4.4430 <sub>12</sub>	
Q8609542	4.3772		4.4053			
Q8609543	4.3893		4.4172			
Q8609544	4.3942		4.4215			
Q8609545	4.3801		4.4302			
Q8609546	4.3690		4.4171		4.4169 <sub>10</sub>	
Q8609547	4.3662	4.4304	4.4304			
Q8609548	4.3659	4.4291	4.4291		4.4292 <sub>12</sub>	
Q8609549	4.3849		4.4355			
Q8609550	4.3860	4.3863	4.4149			
Q8609551	4.3948	4.4399				
Q8609552	4.3665	4.4318	4.4318		4.4318 <sub>12</sub>	
Q8609553	4.4153	4.4616				
Q8609554	4.3975	4.4435				



COMMENTS:

STD \_\_\_\_\_ ACTUAL \_\_\_\_\_  
 FLOW  $\text{m}^3/\text{min}$  \_\_\_\_\_  
 ELAPSED TIME 1940 MINUTES \_\_\_\_\_  
 AVG. RECORDER RESP. 16.5 \_\_\_\_\_  
 TSP \_\_\_\_\_  
 PM-10 ☒ AIRS \_\_\_\_\_  
 SITE Golding Road H 3013  
 OPERATOR DEPA DATE 7/19/02  
 INITIAL WT \_\_\_\_\_  
 FINAL WT \_\_\_\_\_  
 PRESS  $\text{mmHg}$  \_\_\_\_\_  
 TEMP  $^{\circ}\text{C}$  \_\_\_\_\_  
 TOTAL FLOW  $\text{m}^3$  \_\_\_\_\_  
 SAMPLE WT  $\text{ug}/\text{m}^3$  \_\_\_\_\_  
 9 \_\_\_\_\_  
 9 \_\_\_\_\_  
 9 \_\_\_\_\_

## US EPA Region 5 Field Sample



5-340262-1

Parameters PM10

AIR 0207012

Preservative None

S M MD B D

Sample ID 02AH59D01

X

Sampler Mike MurphyDate 7-19-02



COMMENTS:

STD \_\_\_\_\_ ACTUAL \_\_\_\_\_ PM-10 \_\_\_\_\_  $\mu\text{g}/\text{m}^3$   
FLOW \_\_\_\_\_  $\text{m}^3/\text{min}$  TOTAL FLOW \_\_\_\_\_  $\text{m}^3$  SAMPLE WT \_\_\_\_\_ g  
ELAPSED TIME \_\_\_\_\_ MINUTES PRESS \_\_\_\_\_ mmHg INITIAL WT \_\_\_\_\_ g  
AVG. RECORDER RESP. \_\_\_\_\_ TEMP \_\_\_\_\_ °C FINAL WT \_\_\_\_\_ g  
TSP \_\_\_\_\_ SITE *Cutting Road* # *3013*  
PM-10 ☒ AIRS *08609545* OPERATOR *DEPH* DATE *7/19/02*

US EPA Region 5 Field Sample



5-340261-1

Parameters PM10

*AIR 0207012*

Preservative None S M MD B D

Sample ID 02AH59S01 X

Sampler *Mike Murphy*

Date *7-19-02*

US EPA Region 5 Field Sample



5-340261-1

Parameters PM10

*AIR 0207012*

Preservative None S M M D B D

Sample ID 02AH59S01 X

Sampler *Mike Murphy*

Date *7-19-02*

*River Site Serial # 3012*



# GENERAL INFORMATION

# STANDARD WEIGHTS ACTUAL(g)

# BALANCED WEIGHTS BALANCE(g)

METTLER AG 285

0.1000

0.10000

S/N 1120181838

0.2000

0.20000

8/16/2002 FAA

0.5000

0.50000

10.0000

10.0001

20.0000

20.0005

50.0000

50.0003

100.0000

100.0006

SARTORIUS

1.0000

0.9998

S/N 37010119

2.0000

2.0001

8/16/02 FAA

5.0000

5.0001

